

PATENT APPLICATION

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 TODD NEWMAN, ET AL.)
 Application No.: N/Y/A)
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 For: ADJUSTMENT OF COLOR)
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INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. § 1.56, Applicants respectfully direct the Examiner's attention to the documents listed below and on the enclosed Form PTO-1449. A copy of each document so listed is enclosed.

U.S. Patent No. 5,528,386
 U.S. Patent No. 5,677,967
 U.S. Patent No. 5,710,824
 U.S. Patent No. 5,870,077
 U.S. Patent No. 5,926,291

E. Switkes, et al., "Comparison Of Color And Luminance Contrast: Apples Versus Oranges", Vision Research Journal, Vol. 39, No. 10, p.1823-31 (May 1999). (Abstract Only)

M.A. Webster, et al., "Motion Minima For Different Directions In Color Space", Vision Research Journal, Vol. 37, No. 11, p.1479-98 (June 1997). (Abstract Only)

N.S. Smith, et al., "Interrelation Of The Swiss Colour Atlas (SCA 2541) And The Munsell Color Order System", Color Research & Application

Journal, Vol. 22, No. 2, p.111-20 (April 1997).
(Abstract Only)

A. Lin, et al., "Mechanics Underlying Segmentation Of Colored Textures", Vision Research Journal, Vol. 37, No. 1, p.83-97 (January 1997).
(Abstract Only)

V.C. Greenstein, et al., "Chromatic And Luminance Systems Deficits In Glaucoma", Vision Research Journal, Vol. 36, No. 4, p.621-9 (February 1996). (Abstract Only)

J. Lancis, et al., "White-light Implementation Of The Wigner-distribution Function With An Achromatic Processor", Applied Optics Journal, Vol. 34, No. 35, p.8209-12 (December 1995). (Abstract Only)

V.C. Greenstein, et al., "Chromatic And Luminance Sensitivity In Diabetes And Glaucoma", Journal Of The Optical Society Of America A (Optics and Image Science), Vol. 10, No. 8, p.1785-91 (August 1993). (Abstract Only)

D.B. Chenault, et al., "Measurements Of Linear Diattenuation And Linear Retardance Spectra With A Rotating Sample Spectropolarimeter", Applied Optics Journal, Vol. 32, No. 19, p.3513-19 (July 1993).
(Abstract Only)

M.A. Wilson, et al., "The Julius F. Neumueller Award In Optics, 1989: Change Of Pupil Centration With Change Of Illumination And Pupil Size", Optometry And Vision Science Journal, Vol. 69, No. 2, p.129-36 (February 1992). (Abstract Only)

S. Mahadev, et al., "Application Of A Color-Appearance Model To Vision Through Atmospheric Haze", Color Research & Application Journal, Vol. 24, No. 2, p.112-20 (April 1999). (Abstract Only)

Jee-Hong-Kim, "Color Reproduction Using Color Appearance Model In LCD Projection Systems", Hankook Kwanghak Hoeji Journal, Vol. 9, No. 6, p.373-9 (December 1998). (Abstract Only)

H. Sobagaki, et al., "Field Trials Of The CIE Chromatic-Adaptation Transform", Color Research & Application Journal, Vol. 23, No. 2, p.78-91 (April 1998). (Abstract Only)

M.R. Luo, et al., "A Chromatic Adaptation Transform And A Colour Inconstancy Index", Color Research & Application Journal, Vol. 23, No. 3, p.154-8 (June 1998). (Abstract Only)

M.R. Luo, et al., "Testing Colour Appearance Models Using Corresponding-Colour And Magnitude-Estimation Data Sets", Color Research & Application Journal, Vol. 23, No. 3, p.147-53 (June 1998). (Abstract Only)

M.R. Luo, et al., "The Structure Of The CIE 1997 Color, Appearance, Model (CIECAM97s)", Color Research & Application Journal, Vol. 23, No. 3, p.138-46 (June 1998). (Abstract Only)

C.M. Howard, "Measuring Visual Effectiveness Of Dim Light", 1996 SID International Symposium. Digest Of Technical Papers. First Edition p.739-41 (1996). (Abstract Only)

P.M. Hubel, et al., "Sharp Transformations For Color Appearance", Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA), Vol. 3300, p.159-64 (1998). (Abstract Only)

J. Schanda, "CIE Colorimetry And Colour Displays", Final Program and Proceedings of IS&T/SID Fourth Color Imaging Conference: Color Science, Systems and Applications p.230-4 (1996). (Abstract Only)

M. Rommier Luo, et al., "Using The LUTCHI Colour Appearance Data", Color Research & Application Journal, Vol. 22, No. 6, p.414-17 (December 1997). (Abstract Only)

Y. Nayatani, et al., "Field Trials Of A Nonlinear Color-Appearance Model", Color Research & Application Journal, Vol. 22, No. 4, p.240-58 (August 1997). (Abstract Only)

F.H. Imai, et al., "Principal Component Analysis Of Skin Color And Its Application To Portrait Color Reproduction", Proceedings of 5th International Conference on High Technology: Imaging Science and Technology, Evolution and Promise. World Techno Fair in Chiba '96 p.254-61 (1996). (Abstract Only)

M. Ronnier Luo, et al., "Two Unsolved Issues In Colour Management-Colour Appearance And Gamut Mapping", Proceedings of 5th International Conference on High Technology: Imaging Science and Technology, Evolution and Promise. World Techno Fair in Chiba '96 p.136-47 (1996). (Abstract Only)

T. Tanaka, et al., "Predicting The Image Quality Of Color Overhead Transparencies Using A Color-Appearance Model", Journal Of Electronic Imaging, Vol. 6, No. 2, p.154-65 (April 1997). (Abstract Only)

P. Campadelli, et al., "Approximation Of The Hunt94 Color, Appearance, Model By Means Of Feed-Forward Neural Networks", Proceedings. International Conference On Image Processing (Cat. No.96CH35919) Part Vol. 3, p.999-1002, Vol. 3 (1996). (Abstract Only)

M.R. Luo, et al., "The LLAB (l:c) Colour Model", Color Research & Application Journal, Vol. 21, No. 6, p.412-29 (December 1996). (Abstract Only)

T. Pomierski, et al., "Biological Neural Architecture For Chromatic Adaptation Resulting In Constant Color Sensations", ICNN 96. The 1996 IEEE International Conference on Neural Networks (Cat. No. 96CH35907) Part Vol. 2, p.734-9, Vol. 2 (1996). (Abstract Only)

Y. Nayatani, et al., "Prediction Of The Helmholtz-Kohlrausch Effect Using The CIELUV Formula", Color Research & Application Journal, Vol. 21, No. 4, p.252-68 (August 1996). (Abstract Only)

Yu-Chuan Shen, et al., "Computer Simulation Of Color-Blindness And Its Application To The Design Of Color-Blindness-Discrimination-Spectacles (CBDS)", Chinese Journal Of Medical And Biological Engineering, Vol. 16, No. 1, p.61-83 (March 1996). (Abstract Only)

Fairchild, M.D., "Considering The Surround in Device-Independent Color Imaging", Color Research & Application Journal, Vol. 20, No. 6, p.352-63 (December 1995). (Abstract Only)

Y. Nayatani, et al., "Lightness Dependency Of Chroma Scales Of A Nonlinear Color, Appearance Model And Its Latest Formulation", Color Research & Application Journal, Vol. 20, No. 3, p.156-67 (June 1995). (Abstract Only)

Y. Nayatani, "Revision Of The Chroma And Hue Scales Of A Nonlinear Color Appearance Model", Color Research & Application Journal, Vol. 20, No. 3, p.143-55 (June 1995). (Abstract Only)

M.R. Luo, et al., "Quantifying Colour Appearance. V. Simultaneous Contrast", Color Research & Application Journal, Vol. 20, No. 1, p.18-28 (February 1995). (Abstract Only)

K. Takahama, et al., "Prediction Of Appearances Of Object Colors In Complex Visual Field", Bulletin Of The Electrotechnical Laboratory, Vol. 55, No. 9, p.78-94 (1991). (Abstract Only)

Fairchild, M.D., "Formulation And Testing Of An Incomplete-Chromatic-Adaptation Model", Color Research & Application Journal, Vol. 16, No. 4, p.243-50 (August 1991). (Abstract Only)

M. Ronnier Luo, et al., "Quantifying Colour Appearance. II. Testing Colour Models Performance Using LUTCHI Colour Appearance Data", Color Research & Application Journal, Vol. 16, No. 3, p.181-97 (June 1991). (Abstract Only)

L. McDonald, "Colour Crunching", Image Processing Journal, Vol. 3, No. 1, p.15-16, 19 (Spring 1991). (Abstract Only)

L.W. McDonald, "Preserving The Colour Appearance Of Images Across Different Media", Image Processing 90 - The Key Issues. Conference Proceedings p.9pp. (1990). (Abstract Only)

Y. Nayatani, et al., "Analyzing The Natural Color System's Color-Order System By Using A Nonlinear Color-Appearance Model", Color Research & Application Journal, Vol. 14, No. 2, p.69-78 (April 1989). (Abstract Only)

Y. Nayatani, et al., "Whiteness-Blackness And Brightness Response In A Nonlinear Color Appearance

Model", Color Research & Application Journal, Vol. 12, No. 3, p.121-7 (June 1987). (Abstract Only)

G.G. Attridge, et al., "The Application Of A Colour Reproduction Index To Photographic Transparencies", Journal Of Photographic Science, Vol. 41, No. 1, p.11-17 (1993). (Abstract Only)

G.G. Attridge, et al., "The Variation Of Acceptability Of Colour Prints With Spectral Sensitivities Of Colour Negative Film And Colour Temperature Of The Exposing Source", Journal Of Photographic Science, Vol. 40, No. 1, p.14-22 (1992). (Abstract Only)

M. Ronnier Luo, et al., "Quantifying Colour Appearance. I. LUTCHI Colour Appearance Data", Color Research & Application Journal, Vol. 16, No. 3, p.166-80 (June 1991). (Abstract Only)

R.W.G. Hunt, "Revised Colour-Appearance Model For Related And Unrelated Colours", Color Research & Application Journal, Vol. 16, No. 3, p.146-65 (June 1991). (Abstract Only)

R.W.G. Hunt, "Procedures For Using A Revised Colour Appearance Model", Journal Of Photographic Science, Vol. 38, No. 4-5, p.109-13 (1990). (Abstract Only)

G.D. Finlayson, et al., "Colour Indexing Across Illumination", Challenge Of Image Retrieval. CIR 99 - Second UK Conference On Image Retrieval, p.7 pp. (1999). (Abstract Only)

H.B. Archer, "The Application Of Digital Picture Processing To Prescan Evaluation", Lasers in Graphics. Electronic Publishing in the 80's. 1984 Conference Proceedings, p.612-17, Vol. 1, (1984). (Abstract Only)

M.S. Barger, et al., "A Physical Model For The Daguerreotype", Photographic Science and Engineering, Vol. 26, No. 6, p.285-91, (Nov.-Dec. 1982). (Abstract Only)

J. Katajamaki, et al., "Classification Of Images For Automatic Colour Correction", Final Program and Proceedings of the Third IS&T/SID Color Imaging Conference. Color Science, Systems and Applications, p.109-11, (1995). (Abstract Only)

Mark D. Fairchild, "Color Appearance Model",
Chapter 10, p.217-230 and Chapter 17, p.339-366,
Addison Wesley, (November 1997).

The foregoing documents turned up during pre-filing activities for the subject application.

Inasmuch as the subject application has not yet received a first Office Action, it is believed that this Information Disclosure Statement is timely. See 37 C.F.R. § 1.97(b)(1). Accordingly, the Examiner is urged to study this information in its entirety and to form an independent determination of the materiality of the information to the claimed invention. Additionally, the Examiner is requested to indicate that this information has been considered by initialling the appropriate portion of Form PTO-1449.

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Respectfully submitted,


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